

#### **DATA SHEET**

# **CISCO MEDIA CONVERGENCE SERVER 7815I-3000**

### **PRODUCT OVERVIEW**

### Figure 1

Cisco MCS 7815I-3000



#### **Performance**

Using a single Intel Pentium 4 3.06-GHz processor with 1 GB of synchronous dynamic random-access memory (SDRAM), the Cisco<sup>®</sup> Media Convergence Server (MCS) 7815I-3000 is a robust server platform in a tower form factor designed to support today's IP communications applications.

### **Flexibility**

The Cisco MCS 7815I-3000 can run any of the following Cisco Systems<sup>®</sup> applications:

- Cisco CallManager
- Cisco IP Contact Center Express Edition
- Cisco IP Interactive Voice Response (IP IVR)
- Cisco Unity<sup>TM</sup> software
- · Cisco Unity Bridge

### **APPLICATIONS**

### Cisco CallManager

The Cisco CallManager is the call-processing software component of a Cisco IP Communications network. Cisco CallManager extends enterprise telephony features to packet telephony devices such as IP phones, voice-over-IP (VoIP) gateways, and IP-based multimedia applications. An important benefit of Cisco CallManager is that special-purpose voice-processing hardware is not required. Cisco CallManager enables supplementary services to be made available on IP phones and gateways. These features include hold, transfer, forward, conference, multiple-line appearances, automatic route selection, speed dial, and last-number redial.

Enhancing Cisco CallManager capabilities is a simple matter of upgrading software, thereby saving you expensive hardware upgrades. In addition, Cisco CallManager allows all phones, gateways, and applications to be distributed across an IP network, providing a single distributed, virtual telephony network. Each Cisco MCS 7815I-3000 supports up to 300 Cisco CallManager users, depending upon the N+1 redundancy configuration. Cisco CallManager software licensing is available for the Cisco MCS 7815I-3000 to support either 100 phones or up to 300 phones.

### Availability

Cisco CallManager N+1 redundancy provides continued operation of the IP phone network when a Cisco MCS 7815I-3000 is off line in a redundant MCS configuration. The ability to cluster call-processing servers illustrates the leading-edge architecture of Cisco AVVID. Cisco has created a redundancy package that can be ordered using a single part number that contains two Cisco MCS 7815I-3000 servers and two Cisco CallManager DVD installation sets. This package is available at a reduced price when compared to purchasing the components separately and is only to be used to provide a redundant configuration.

## System Backup and Restore

Every Cisco MCS 7815I-3000 includes custom backup and restore functions that are configured when you run the automatic installation software. You specify a file location on another server on your IP network, and the Cisco MCS 7815I-3000 does the rest. All relevant data files are stored nightly at 2 a.m. (or another time you choose) on another networked file server. In case of a failure, you can run the restore routine, specify the backup file location, and be back online.

#### **IP Telephony Starter Kit**

Cisco offers an IP communications starter kit to allow a customer to experience Cisco IP Communications before deploying it on a greater scale. The Cisco MCS 7815I-3000, Cisco CallManager software, and five Cisco IP Phone 7960G units are included in the starter kit.

### Model

Cisco MCS 7815I-3000 model number MCS-7815I-3.0-IPC1 is equipped with a single Pentium 4 3.0-GHz processor, 1 GB of SDRAM and one 80-GB serial Advanced Technology Attachment (ATA) hard disk.

For more information about Cisco CallManager, visit: http://www.cisco.com/en/US/products/sw/voicesw/ps556/index.html

## **Cisco Emergency Responder Software**

Cisco Emergency Responder enables emergency agencies to identify the location of 911 callers and eliminates the need for any administration when phones or people move from one location to another. Enhancing the existing E-911 functions of Cisco CallManager, the Cisco Emergency Responder real-time location-tracking database and improved routing capabilities direct emergency calls to the appropriate public safety answering point based on a caller's location.

When coupled with Cisco CallManager, Cisco Emergency Responder surpasses traditional private branch exchange (PBX) capabilities by introducing zero-cost user or phone moves and changes and dynamic tracking of user and phone locations for E-911 safety and security purposes.

#### Model

The Cisco MCS 7815I-3000 model number MCS-7815I-3.0-IPC1 is equipped with a single Pentium 4 3.0-GHz processor, 1 GB of SDRAM and one 80-GB serial ATA hard disk.

For more information about Cisco Emergency Responder, visit: <a href="http://www.cisco.com/go/cer/">http://www.cisco.com/go/cer/</a>

#### **Cisco IP Contact Center Express Edition**

Cisco IP Contact Center (IPCC) Express Edition offers an integrated, full-featured solution for managing customer voice contacts with all the benefits of the converged Cisco IP Telephony architecture. Cisco IPCC Express Edition is a "contact center in a box" with full automatic call distributor (ACD), IVR, and computer telephony integration (CTI) functions for both formal and informal contact centers, delivering sophisticated call routing, management, and administration features for departmental, enterprise branch, or small- to medium-sized enterprise customer-care needs. Cisco IPCC Express is designed to enhance the efficiency of any contact center organization by simplifying business application integration, easing agent administration, increasing agent flexibility, and providing efficiency gains in network hosting. These features reduce business costs and improve customer response for your contact center. The solution is tightly integrated with Cisco AVVID and Cisco CallManager.

#### Model

Cisco MCS 7815I-3000 model number MCS-7815I-3.0-CC1 is equipped with a single Pentium 4 3.0-GHz processor, 1 GB of SDRAM and one 80-GB serial ATA hard disk.

For more information about Cisco IPCC Express Edition, visit: http://www.cisco.com/en/US/products/sw/custcosw/ps1846/ps4918/index.html

#### **Cisco IP Interactive Voice Response**

Cisco IP Interactive Voice Response (IVR) offers a full-feature IVR solution based on IP voice-response unit (VRU) technology. Cisco IP IVR offers a robust set of IVR capabilities, including database integration; automatic speech recognition; text-to-speech capability; Voice Extensible Markup Language (VXML); Extensible Markup Language (XML) and HTTP integration; and Cisco e-notification services for automated e-mail, paging, or fax notifications. The solution is tightly integrated with Cisco AVVID and Cisco CallManager.

### Model

Cisco MCS 7815I-3000 model number MCS-7815I-3.0-CC1 is equipped with a single Pentium 4 3.0-GHz processor, 1 GB of SDRAM and one 80-GB serial ATA hard disk.

For more information about Cisco IP IVR, visit: http://www.cisco.com/en/US/products/sw/custcosw/ps3651/index.html

### **Cisco Unity**

Cisco Unity—an integral component of the Cisco IP Communications system—is the premier unified communications solution for enterprise-scale organizations. It delivers powerful unified messaging (e-mail, voice, and fax messages sent to one inbox) and intelligent voice messaging (full-featured voice mail providing advanced functions) to improve communications, boost productivity, and enhance customer service capabilities across your organization. Cisco Unity provides advanced, convergence-based communication services and integrates them with the desktop applications you use every day. With Cisco Unity Unified Messaging, you can listen to your e-mail over the telephone, check voice messages from the Internet, and—when integrated with a supported third-party fax server—forward faxes to wherever you are. Cisco Unity Voice Messaging features robust automated attendant functions that include intelligent routing and easily customizable call screening and message notification options.

MCS-7815I-3.0-ECS1 is the model of the Cisco MCS 7815I-3000 designed for the Cisco Unity application. This model supports up to 499 voice messaging or unified messaging users. This model also supports the Cisco Unity Bridge application, which links a Cisco Unity system to an Octel voice-mail system and allows messaging between subscribers on a Cisco Unity messaging system and an Octel system.

For more information about Cisco Unity, visit: http://www.cisco.com/en/US/products/sw/voicesw/ps2237/index.html

For more information about Cisco Unity Bridge, visit: <a href="http://www.cisco.com/en/US/products/sw/voicesw/ps2237/ps5454/index.html">http://www.cisco.com/en/US/products/sw/voicesw/ps2237/ps5454/index.html</a>

# **PRODUCT SPECIFICATIONS**

Table 1 contains product specifications, and Table 2 provides ordering information for the Cisco MCS 7815I-3000 components.

Table 1. Product Specifications

Description         Specification           Processor         Intel Pentium 4           Processor Internal clock speed         3060 MHz           Processor Layer 2 cache         1 MB           Basic input/output system         Flash           Memory maximum         4096 MB           Memory bus clock         200 MHz           Memory technology         PC 2700 double data rate (DDR) SDRAM           Total RAM slots         4           Floppy disk         3.5 in.           Floppy pread/write capacity         1.44 MB/720 KB           Floppy pread/write capacity         1.44 MB/720 KB           Floppy transfer rate         500/250 Kbps           Floppy transfer rate         500/250 Kbps           Floppy transfer rate         500/250 Kbps           Floppy transfer rate         300           Floppy track-to-track access time         376 milliseconds (ms)           Floppy track-to-track access times         374/94 ms           Floppy track-to-track access times         174/94 ms           Floppy track-to-track access times         174/94 ms           Floppy track-to-track access times         170 milliseconds (ms)           Floppy track-to-track access times         170 milliseconds (ms)           Floppy read/write heads         2 <th>Description</th> <th>Consideration</th>	Description	Consideration
Processor Internal clock speed         3060 MHz           Processor Layer 2 cache         1 MB           Basic input/output system         Flash           Memory installed         1024 MB (2x512)           Memory bus clock         200 MHz           Memory bus clock         200 MHz           Memory technology         PC 2700 double data rate (DDR) SDRAM           Total RAM slots         4           Floppy drisk         3.5 in.           Floppy pread/write capacity         1.44 MB/720 KB           Floppy drives supported         1           Floppy drives rotation         300           Floppy bytes sector         512           Floppy strack-react         18/9           Floppy track-re-track access time         30/8 milliseconds (ms)           Floppy saverage access times         17/494 ms           Floppy read-write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD dual layer read speed         6.7 to 16x (Full CAV)           DVD variage         2 x 2CLV           DVD-R-T-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-T-4.7 GB         2 x 2CLV           DVD-RAM-2.5 GB <t< th=""><th>-</th><th></th></t<>	-	
Processor Layer 2 cache         1 MIB           Basic input/output system         Flash           Memory installed         1024 MIB (2x512)           Memory maximum         4096 MIB           Memory bus clock         200 MHz           Memory technology         PC 2700 double data rate (DDR) SDRAM           Total RAM slots         4           Floppy disk         3.5 in.           Floppy drives supported         1.44 MB/720 KB           Floppy drive rotation         300           Floppy drive rotation         300           Floppy tracker rate         500/250 Kbps           Floppy tracks/side         80/80           Floppy tracks/side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy track-k-drack access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6,7 to 16x (Full CAV)           DVD single layer read speed         5 to 12x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-2.95 GB         2 x ZCLV           DVD-RAM—2.5 GB         2 x ZCLV           DVD-RAM—2.6 GB         2 x Z		
Basic input/output system         Flash           Memory installed         1024 MB (2x512)           Memory bus clock         200 MHz           Memory bus clock         200 MHz           Memory technology         PC 2700 double data rate (DDR) SDRAM           Total RAM slots         4           Floppy disk         3.5 in.           Floppy driver capacity         1.44 MB/720 KB           Floppy drive rotation         300           Floppy transfer rate         500/250 Kbps           Floppy transfer rate         500/250 Kbps           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy track-to-track access time         174/94 ms           Floppy track-to-track access time         174/94 ms           Floppy read/write heads         2           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-R-M—2.5 GB         2 x ZCLV           CD-ROM/CD-R         1.7 to 40x (Full CAV)	·	
Memory installed         1024 MB (2x512)           Memory bus clock         200 MHz           Memory bus clock         200 MHz           Memory technology         PC 2700 double data rate (DDR) SDRAM           Total RAM slots         4           Floppy disk         3.5 in.           Floppy pread/write capacity         1.44 MB/720 KB           Floppy drives supported         1           Floppy trive rotation         300           Floppy transfer rate         500/250 Kbps           Floppy bytes /sector         512           Floppy sectors/brack         18/9           Floppy track-doutrack access time         306 milliseconds (ms)           Floppy read/write heads         2           Floppy read/write heads         2           DVD insigle layer read speed         6.7 to 16x (Full CAV)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM-2.5 GB         2 x ZCLV           CD-ROMCD-R         1 to 64x (Full CAV)           CD-RAM-2.6 GB         1 to 10x (Full CAV)           CD-RAM-2.7 GB         1 to 10x (Full CAV)           CD-RAM-2.6 GB         4 x ZCLV	•	
Memory bus clock         200 MHz           Memory technology         PC 2700 double data rate (DDR) SDRAM           Total RAM slots         4           Floppy flow         3.5 in.           Floppy drives capacity         1.44 MB/720 KB           Floppy drive rotation         30           Floppy drive rotation         500/250 Kbps           Floppy bransfer rate         500/250 Kbps           Floppy sectors/track         18/9           Floppy track-double access time         3/6 milliseconds (ms)           Floppy track-double access time         3/6 milliseconds (ms)           Floppy track-double access time         3/6 milliseconds (ms)           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD acad layer read speed         5. to 12x (Full CAV)           DVD acad speed         3.3 to 8x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-RAM-2.5 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           CD-ROM/CD-R         1 to 10x (Full CAV)           CD-ROM/CD-R         4.3 to 10x (Full CAV) <t< th=""><th></th><th></th></t<>		
Memory bus clock         200 MHz           Memory technology         PC 2700 double data rate (DDR) SDRAM           Total RAM slots         4           Floppy disk         3.5 in.           Floppy drives supported         1           Floppy drive rotation         300           Floppy bytes /sector         512           Floppy bytes /sector shrack         18/9           Floppy track-side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy average access times         174/94 ms           Floppy average access times         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         5.0 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R3.5 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         2 x ZCLV           DVD-R-AM2.5 GB         2 x ZCLV           CD-ROM/CD-R         1 to 10x (Full CAV)           CD-ROM/CD-R         1 to 10x (Full CAV)           C	·	1024 MB (2x512)
Memory technology         PC 2700 double data rate (DDR) SDRAM           Total RAM slots         4           Floppy disk         3.5 in.           Floppy pread/write capacity         1.44 MB/720 KB           Floppy drives supported         1           Floppy drive rotation         300           Floppy transfer rate         500/250 Kbps           Floppy bytes /sector         512           Floppy sectors/track         18/9           Floppy track-solvitack         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy trad/write heads         2           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD and layer read speed         5.7 to 12x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-R-MAM-2.5 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-DA (DAE)         4 to 10x (Full CAV)           CD-DA (DAE)         4 to 10x (Full CAV)           CD-DA (Audio out)         4	·	4096 MB
Total RAM slots         4           Floppy disk         3.5 in.           Floppy drives capacity         1.44 MB/720 KB           Floppy drives supported         1           Floppy drive rotation         300           Floppy transfer rate         500/250 Kbps           Floppy bytes /sector         512           Floppy sectors/track         18/9           Floppy tracks/side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy averad/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-R-AM-2.5 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-ROM         10 to 24x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1	Memory bus clock	200 MHz
Floppy lisk         3.5 in.           Floppy read/write capacity         1.44 MB/720 KB           Floppy drives supported         1           Floppy drive rotation         300           Floppy transfer rate         500/250 Kbps           Floppy sectors/track         18/9           Floppy tracks/side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-RAM-2.5 GB         2 x ZCLV           DVD-RAM-2.7 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1	Memory technology	PC 2700 double data rate (DDR) SDRAM
Floppy read/write capacity         1.44 MB/720 KB           Floppy drives supported         1           Floppy transfer rate         500/250 Kbps           Floppy bytes /sector         512           Floppy sectors/track         18/9           Floppy track/side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD and layer read speed         5 to 12x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         2 x ZCLV           DVD-RAM-2.5 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-ROM         0.10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (DAE)         12x CLV           CD-DA (SALD)         4 to 10x (Full CAV)           Number of hard disks installed         1 <th>Total RAM slots</th> <th>4</th>	Total RAM slots	4
Floppy drives supported         1           Floppy drive rotation         300           Floppy transfer rate         500/250 Kbps           Floppy bytes /sector         512           Floppy sectors/track         189           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy track-to-track access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R3.95 GB         1 to 2.3x (Full CAV)           DVD-R3.95 GB         1 to 2.3x (Full CAV)           DVD-RAM2.5 GB         2 x ZCLV           DVD-RAM2.6 GB         2 x ZCLV           DVD-RAM4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-Ivideo CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (DAE)         12x CLV           CD-DA (SAE)         12x CLV           CD-DA (Saudio out)         4 to 10x (Full CAV)           Number of hard disks installed         1	Floppy disk	3.5 in.
Floppy drive rotation         300           Floppy transfer rate         500/250 Kbps           Floppy bytes /sector         512           Floppy sectors/track         18/9           Floppy tracks/side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy paverage access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM-2.5 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-DA (OAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Hard disk average seek time         Less than 9 ms	Floppy read/write capacity	1.44 MB/720 KB
Floppy transfer rate         500/250 Kbps           Floppy bytes /sector         512           Floppy sectors/track         18/9           Floppy tracks/side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM-2.5 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           DVD-RAM-4.7 GB         1 to 0.4x (Full CAV)           CD-ROW/CD-R         17 to 40x (Full CAV)           CD-ROW/CD-R         10 to 24x (Full CAV)           CD-Ivideo CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (DAE)         12x CLV           CD-DA (dudic out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Hard disk average seek time         Less than 9 ms	Floppy drives supported	1
Floppy bytes /sector         512           Floppy sectors/track         18/9           Floppy tracks/side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM-2.5 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           CD-ROM-CD-R         17 to 40x (Full CAV)           CD-ROW         10 to 24x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Hard disk average seek time         Less than 9 ms	Floppy drive rotation	300
Floppy sectors/track         18/9           Floppy tracks/side         80/80           Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R—3.95 GB         1 to 2.3x (Full CAV)           DVD-R—4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM—2.5 GB         2 x ZCLV           DVD-RAM—4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Hard disk average seek time         Less than 9 ms	Floppy transfer rate	500/250 Kbps
Floppy track-to-track access time         3/6 milliseconds (ms)           Floppy average access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD dual layer read speed         5 to 12x (Full CAV)           DVD-R-3.95 GB         1 to 2.3x (Full CAV)           DVD-R-4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM-2.5 GB         2 x ZCLV           DVD-RAM-4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Installed hard disk size         80 GB           Hard disk average seek time         Less than 9 ms	Floppy bytes /sector	512
Floppy track-to-track access times 174/94 ms  Floppy average access times 2  DVD interface Integrated Drive Electronics (IDE)  DVD single layer read speed 6.7 to 16x (Full CAV)  DVD dual layer read speed 5 to 12x (Full CAV)  DVD video 3.3 to 8x (Full CAV)  DVD-R-3.95 GB 1 to 2.3x (Full CAV)  DVD-R-4.7 GB 1 to 2.3x (Full CAV)  DVD-RAM-2.5 GB 2 x ZCLV  DVD-RAM-4.7 GB 2 x ZCLV  CD-ROM/CD-R 17 to 40x (Full CAV)  CD-RW 10 to 24x (Full CAV)  CD-IVideo CD 4.3 to 10x (Full CAV)  CD-DA (DAE) 12x CLV  CD-DA (Audio out) 4 to 10x (Full CAV)  Number of hard disks installed 1  Installed hard disk size 80 GB  Hard disk average seek time Less than 9 ms	Floppy sectors/track	18/9
Floppy average access times         174/94 ms           Floppy read/write heads         2           DVD interface         Integrated Drive Electronics (IDE)           DVD single layer read speed         6.7 to 16x (Full CAV)           DVD dual layer read speed         5 to 12x (Full CAV)           DVD-R—3.95 GB         1 to 2.3x (Full CAV)           DVD-R—4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM—2.5 GB         2 x ZCLV           DVD-RAM—4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Installed hard disk size         80 GB           Hard disk average seek time         Less than 9 ms	Floppy tracks/side	80/80
Floppy read/write heads2DVD interfaceIntegrated Drive Electronics (IDE)DVD single layer read speed6.7 to 16x (Full CAV)DVD dual layer read speed5 to 12x (Full CAV)DVD video3.3 to 8x (Full CAV)DVD-R-3.95 GB1 to 2.3x (Full CAV)DVD-R-4.7 GB1 to 2.3x (Full CAV)DVD-RAM-2.5 GB2 x ZCLVDVD-RAM-4.7 GB2 x ZCLVCD-ROM/CD-R17 to 40x (Full CAV)CD-RW10 to 24x (Full CAV)CD-I/video CD4.3 to 10x (Full CAV)CD-DA (DAE)12x CLVCD-DA (Audio out)4 to 10x (Full CAV)Number of hard disks installed1Installed hard disk size80 GBHard disk average seek timeLess than 9 ms	Floppy track-to-track access time	3/6 milliseconds (ms)
DVD interface Integrated Drive Electronics (IDE)  DVD single layer read speed 6.7 to 16x (Full CAV)  DVD dual layer read speed 5 to 12x (Full CAV)  DVD video 3.3 to 8x (Full CAV)  DVD-R—3.95 GB 1 to 2.3x (Full CAV)  DVD-R—4.7 GB 1 to 2.3x (Full CAV)  DVD-RAM—2.5 GB 2 x ZCLV  DVD-RAM—4.7 GB 2 x ZCLV  CD-ROM/CD-R 17 to 40x (Full CAV)  CD-RW 10 to 24x (Full CAV)  CD-IVideo CD 4.3 to 10x (Full CAV)  CD-DA (DAE) 12x CLV  CD-DA (Audio out) 4 to 10x (Full CAV)  Number of hard disks installed 1  Installed hard disk size 80 GB  Hard disk average seek time Less than 9 ms	Floppy average access times	174/94 ms
DVD single layer read speed         6.7 to 16x (Full CAV)           DVD dual layer read speed         5 to 12x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R—3.95 GB         1 to 2.3x (Full CAV)           DVD-R—4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM—2.5 GB         2 x ZCLV           DVD-RAM—4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Installed hard disk size         80 GB           Hard disk average seek time         Less than 9 ms	Floppy read/write heads	2
DVD dual layer read speed         5 to 12x (Full CAV)           DVD video         3.3 to 8x (Full CAV)           DVD-R—3.95 GB         1 to 2.3x (Full CAV)           DVD-R—4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM—2.5 GB         2 x ZCLV           DVD-RAM—4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Installed hard disk size         80 GB           Hard disk average seek time         Less than 9 ms	DVD interface	Integrated Drive Electronics (IDE)
DVD video       3.3 to 8x (Full CAV)         DVD-R—3.95 GB       1 to 2.3x (Full CAV)         DVD-RAM—4.7 GB       1 to 2.3x (Full CAV)         DVD-RAM—4.7 GB       2 x ZCLV         CD-ROM/CD-R       17 to 40x (Full CAV)         CD-RW       10 to 24x (Full CAV)         CD-I/video CD       4.3 to 10x (Full CAV)         CD-DA (DAE)       12x CLV         CD-DA (Audio out)       4 to 10x (Full CAV)         Number of hard disks installed       1         Installed hard disk size       80 GB         Hard disk average seek time       Less than 9 ms	DVD single layer read speed	6.7 to 16x (Full CAV)
DVD-R—3.95 GB         1 to 2.3x (Full CAV)           DVD-RAM—4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM—2.5 GB         2 x ZCLV           DVD-RAM—4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Installed hard disk size         80 GB           Hard disk average seek time         Less than 9 ms	DVD dual layer read speed	5 to 12x (Full CAV)
DVD-R—4.7 GB         1 to 2.3x (Full CAV)           DVD-RAM—2.5 GB         2 x ZCLV           DVD-RAM—4.7 GB         2 x ZCLV           CD-ROM/CD-R         17 to 40x (Full CAV)           CD-RW         10 to 24x (Full CAV)           CD-I/video CD         4.3 to 10x (Full CAV)           CD-DA (DAE)         12x CLV           CD-DA (Audio out)         4 to 10x (Full CAV)           Number of hard disks installed         1           Installed hard disk size         80 GB           Hard disk average seek time         Less than 9 ms	DVD video	3.3 to 8x (Full CAV)
DVD-RAM—2.5 GB  DVD-RAM—4.7 GB  2 x ZCLV  CD-ROM/CD-R  17 to 40x (Full CAV)  CD-RW  10 to 24x (Full CAV)  CD-I/video CD  4.3 to 10x (Full CAV)  CD-DA (DAE)  12x CLV  CD-DA (Audio out)  4 to 10x (Full CAV)  Number of hard disks installed  Installed hard disk size  80 GB  Hard disk average seek time	DVD-R—3.95 GB	1 to 2.3x (Full CAV)
DVD-RAM—4.7 GB 2 x ZCLV  CD-ROM/CD-R 17 to 40x (Full CAV)  CD-RW 10 to 24x (Full CAV)  CD-I/video CD 4.3 to 10x (Full CAV)  CD-DA (DAE) 12x CLV  CD-DA (Audio out) 4 to 10x (Full CAV)  Number of hard disks installed 1  Installed hard disk size 80 GB  Hard disk average seek time Less than 9 ms	DVD-R—4.7 GB	1 to 2.3x (Full CAV)
CD-ROM/CD-R 17 to 40x (Full CAV)  CD-RW 10 to 24x (Full CAV)  CD-I/video CD 4.3 to 10x (Full CAV)  CD-DA (DAE) 12x CLV  CD-DA (Audio out) 4 to 10x (Full CAV)  Number of hard disks installed 1  Installed hard disk size 80 GB  Hard disk average seek time Less than 9 ms	DVD-RAM—2.5 GB	2 x ZCLV
CD-RW  CD-I/video CD  4.3 to 10x (Full CAV)  CD-DA (DAE)  12x CLV  CD-DA (Audio out)  4 to 10x (Full CAV)  Number of hard disks installed  Installed hard disk size  80 GB  Hard disk average seek time  10 to 24x (Full CAV)  4.3 to 10x (Full CAV)  12x CLV  4.5 to 10x (Full CAV)  Less than 9 ms	DVD-RAM—4.7 GB	2 x ZCLV
CD-I/video CD 4.3 to 10x (Full CAV)  CD-DA (DAE) 12x CLV  CD-DA (Audio out) 4 to 10x (Full CAV)  Number of hard disks installed 1  Installed hard disk size 80 GB  Hard disk average seek time Less than 9 ms	CD-ROM/CD-R	17 to 40x (Full CAV)
CD-DA (DAE)  CD-DA (Audio out)  4 to 10x (Full CAV)  Number of hard disks installed  Installed hard disk size  80 GB  Hard disk average seek time  Less than 9 ms	CD-RW	10 to 24x (Full CAV)
CD-DA (Audio out) 4 to 10x (Full CAV)  Number of hard disks installed 1  Installed hard disk size 80 GB  Hard disk average seek time Less than 9 ms	CD-I/video CD	4.3 to 10x (Full CAV)
Number of hard disks installed     1       Installed hard disk size     80 GB       Hard disk average seek time     Less than 9 ms	CD-DA (DAE)	12x CLV
Installed hard disk size 80 GB Hard disk average seek time Less than 9 ms	CD-DA (Audio out)	4 to 10x (Full CAV)
Hard disk average seek time Less than 9 ms	Number of hard disks installed	1
•	Installed hard disk size	80 GB
Hard disk average latency 4.2 ms	Hard disk average seek time	Less than 9 ms
	Hard disk average latency	4.2 ms

Description	Specification
Hard disk hot-swappable bays	0
Hard disk controller	ICH-S serial ATA control on motherboard
Hard disk type	Serial ATA easy swap
Maximum installable hard drive capacity	480 GB
Network Interface Controller (NIC)	Single onboard 10/100/1000-Mbps full duplex
NIC connector	RJ-45
NIC 10BASE-T cable support	Categories 3,4, or 5 unshielded twisted-pair (UTP) (2 or 4 pair) up to 328 feet (100 meters)
NIC 100BASE-TX cable support	Category 5 UTP (2 pair) up to 328 ft (100 m)
NIC 1000BASE-T cable support	Category 5 UTP, 5E UTP, 6 UTP (2 pair) up to 328 ft (100 m)
Graphics type	2D
Graphics chipset	ATI 7000M
Graphics data width	128
Video RAM type	SDRAM
Video RAM installed	16 MB
Video RAM maximum	16 MB
Maximum video resolution	1600 x 1200
Maximum colors	32 bpp true color (16M)
Graphics bus interface	PCI
Serial ports	2
Parallel ports	1
USB v1.1 ports	4
Keyboard port	1
Mouse port	1
Audio ports	None
Power-on password security	Yes
Selectable boot device security	Yes
U-Bolt Tie-Down security	Yes
Flash erasable programmable read-only memory (EPROM) write protection security	Yes
Cover key lock security	Yes
Total expansion slots (free) and type	5(5) 32-bit PCI at 33 MHz
Accessible 3.5-in. bays (free) and height	3(2) SL
Non-accessible 3.5-in. bays (free) and height	2(2) SL
Accessible 5.25-in. bays (free) and height	2(1) HH
Maximum input power	340W
Auto-ranging AC mains Input	Yes
Power factor correction	Yes
Mains input frequency range	50–60Hz
Input voltage low range	90 VAC minimum
	137 VAC maximum

Description	Specification
Input voltage high range	180 VAC minimum
	265 VAC maximum
Input kilovolt-amperes (kVA) approximate	0.15 kVA minimum
	0.80 kVA maximum
Air temperature—server on	50.0 to 95°F (10 to 35°C)
	Altitude 0 to 7000 ft (0 to 2133 m)
Air temperature—server off	50.0 to 109.4°F (10 to 43°C)
	Altitude 0 to 7000 ft (0 to 2133 m)
Humidity—server on or off	8 to 80%
Heat emissions minimum	341 Btus/hour
Heat emissions maximum	1604 Btus/hour
Sound emissions—idle	5.1 bel
Sound emissions—maximum	5.3 bel
Cooling system	2 fans
Form factor	Tower
Rack mounting	4 RU standard rack mount with optional rack mount kit ordered
Height	18.5 in. (455 mm)
Width	6.5 in. (165 mm)
Depth	17.25 in. (498 mm)

# ORDERING INFORMATION

To place an order, visit the Cisco Direct Order page.

 Table 2. Ordering Information

Product Name	Part Number
Cisco MCS 7815I-3000 hardware for Cisco CallManager	MCS-7815I-3.0-IPC1
Cisco MCS 7815I-3000 hardware for Cisco IPCC Express Edition	MCS-7815I-3.0-CC1
Cisco MCS 7815I-3000 hardware for Cisco IP IVR	MCS-7815I-3.0-CC1
Cisco MCS 7815I-3000 hardware for Cisco Unity	MCS-7815I-3.0-ECS1
Cisco MCS 7815I-3000 hardware for Cisco Unity Bridge	MCS-7815I-3.0-ECS1
Spare 512 MB SDRAM DIMM	MEM-7815I-3.0-512=
Spare 80 GB SATA Hard Disk	HDD-7815I-3.0-80=
Rail kit to rack mount MCS 7815I-3000 server	RAIL-7815I-3.0=

### **SERVICE AND SUPPORT**

Cisco offers a wide range of services to accelerate customer success. These innovative services are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. Cisco services help you to protect your network investment, optimize network operations, and prepare the network for new applications to extend network intelligence and the power of your business. For more information about Cisco services, see <u>Cisco Technical Support Services</u> or <u>Cisco Advanced Services</u>.

### FOR MORE INFORMATION

For more information about the Cisco Media Convergence Server 7815I-3000, visit <a href="http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html">http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html</a> or contact your local account representative.



#### **Corporate Headquarters**

Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA www.cisco.com

Tel: 408 526-4000 800 553-NETS (6387)

Fax: 408 526-4100

#### **European Headquarters**

Cisco Systems International BV Haarlerbergpark Haarlerbergweg 13-19 1101 CH Amsterdam The Netherlands www-europe.cisco.com

Tel: 31 0 20 357 1000 Fax: 31 0 20 357 1100

# **Americas Headquarters**

Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA

www.cisco.com Tel: 408 526-7660 Fax: 408 527-0883

# Asia Pacific Headquarters

Cisco Systems, Inc. 168 Robinson Road #28-01 Capital Tower Singapore 068912 www.cisco.com

Tel: +65 6317 7777 Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on **the Cisco Website at www.cisco.com/go/offices.** 

Argentina • Australia • Australia • Australia • Australia • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica Croatia • Cyprus • Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2004 Cisco Systems, Inc.; All rights reserved. CCIP, CCSP, the Cisco *Powered* Network mark, Cisco Unity, Follow Me Browsing, FormShare, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MeetingPlace, MGX, the Networkers logo, Networking Academy, Network Registrar, *Packet*, PIX, Post-Routing, Pre-Routing, ProConnect, RateMUX, Registrar, ScriptShare, SlideCast, SMARTnet, StrataView Plus, SwitchProbe, TeleRouter, The Fastest Way to Increase Your Internet Quotient, TransPath, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0403R)

LF/LW6409 06/04

Cisco Systems, Inc.
All contents are Copyright © 1992–2004 Cisco Systems, Inc. All rights reserved. Important Notices and Privacy Statement.
Page 9 of 8